

> Denotes revised material in this JPM

JOB PERFORMANCE MEASURE

TASK CODE: CFO-128

TASK: Operate an Ion Chamber Dose Rate Instrument

NAME: _____ **>BADGE:** _____

>REFERENCES: Only references for knowledge items are listed here. The trainee is expected to identify the correct references for Practical items.

- >1. WP 12-HP1300, Radiological Monitoring Equipment
- 2. Eberline RO3C Technical Manual
- 3. WP 12-HP1100, Radiological Surveys
- >4. WP 12-HP1230, Dose Rate Instrumentation

TERMINAL OBJECTIVE:

>Given that a radiation survey is required to be performed with an ion chamber detector (RO-3C), perform the pre-operational checks and operate the instrument per WP 12-HP1300 and WP 12-HP1100.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

>Personnel Overexposure

PRE-REQUISITE TRAINING/ TASK COMPLETION:

- 1. CL 1.00 Series
- >2. CL 2.16, Radiation Survey Instrumentation and Techniques
- 3. CFO-156, Control Radioactive Sources

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- >1. Ion Chamber dose rate meter (RO-3C)
- 2. Sr/Y90 check source
- 3. Portable instrument operability check form

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Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
2	State the various scales of the RO3C	
2	State the types of radiation the RO3C can detect	
>4	Define the term geotropism as it relates to this instrument.	
1	State the frequency of performing an operational check.	
2	Describe how an ion chamber detector operates	
1	State your actions if any of the operational checks are unsatisfactory	
3	Discuss the method for obtaining beta dose rate indications.	

PERFORMANCE REQUIREMENTS:

>Method	Performance Requirement	Pass/Fail
P	Verify the instrument is in calibration. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a battery check. #	
P	Perform a source check of the instrument. #	
P, S	Complete and submit the portable instrument performance check sheet for review. #	

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>Method	Performance Requirement	Pass/Fail
P, S	Demonstrate proper survey techniques using a RO-3C instrument for gamma. #	
P, S	Demonstrate proper survey techniques using a RO-3C instrument for beta. #	
P, S	Document a radiation survey taken with an ion chamber. (RO-3C)#	

indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE: _____ **DATE:** _____

TRAINEE SIGNATURE: _____ **DATE:** _____

MANAGER SIGNATURE: _____ **DATE:** _____